TOSHIBA

STEREO RADIO CASSETTE RECORDER

RT-886OS

SPECIFICATIONS			
Cassette tape used:	C-30, C-60, C-90, C-120	Jacks:	[MIC] jack x 2, Impedance 200 – 2K ohm
Tape speed:	4.8 cm/sec.		[AUX] jack x 2, Impedance 50K ohm
Track system:	Four-track two-channel stereophonic		[LINE OUT] jack x 2, Impedance 12K ohm
Recording system:	AC bias (55 kHz)		[EXT SP] jack x 2, Impedance 3.2 – 8 ohm
Erasing system:	Multipolar magnet erasing		[PHONES] jack headphone
Frequency response:	Normal 60 Hz to 10 kHz	Power supply:	AC 220V–240V, 50/60 Hz
Receiving frequency:	FM: 88 – 108 MHz		DC 13.5V (SUM-1 "D" size x9)
	LW: 145 – 270 kHz		External DC power
	MW: 525 – 1605 kHz		DC 13.5V (5.0 mm dia.)
	SW: 5.9 – 15.4 MHz		Centre pin ---Positive pole
Intermediate frequency:	FM: 10.7 MHz	Power consumption:	18W
	LW, MW, SW: 460 kHz	Dimensions (mm):	(W)520 x (H)307 x (D)155
Antenna:	FM, SW: telescopic antenna	Weight:	6.3 kg (without batteries)
	LW, MW: ferrite-core antenna		
Speakers:	160 mm (dia.) dynamic x 2		
	50 mm (dia.) dynamic x 2		
	40 mm (dia.) dynamic x 2		

Specifications are subject to change for improvement.

TE, TU, AY

917

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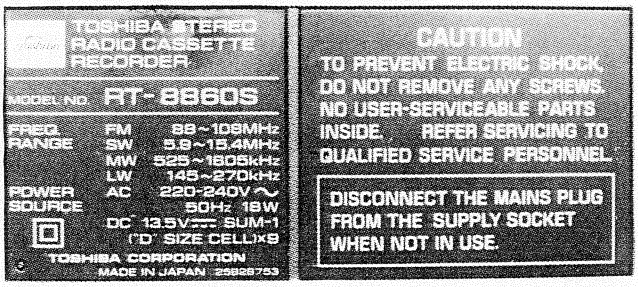
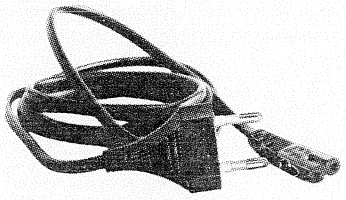
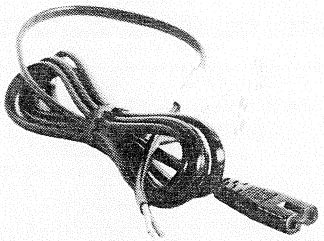
NAMEPLATE


TOSHIBA STEREO RADIO CASSETTE RECORDER
MODEL NO. RT-8860S
FREQ. RANGE
FM 88~108MHz
SW 5.8~15.4MHz
MW 525~1605kHz
LW 145~270kHz
POWER SOURCE
AC 220-240V~ 50Hz 18W
DC 13.5V⎓ SUM-1 ("D" SIZE CELL)×8
TOSHIBA CORPORATION
MADE IN JAPAN 25828759
CAUTION
TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE ANY SCREWS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
DISCONNECT THE MAINS PLUG FROM THE SUPPLY SOCKET WHEN NOT IN USE.

POWER SUPPLY CORD



(TE)



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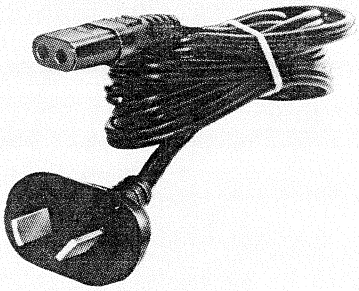


(AY)

1. OPERATING CONTROLS

OPERATION CONTROLS AND COMPONENTS

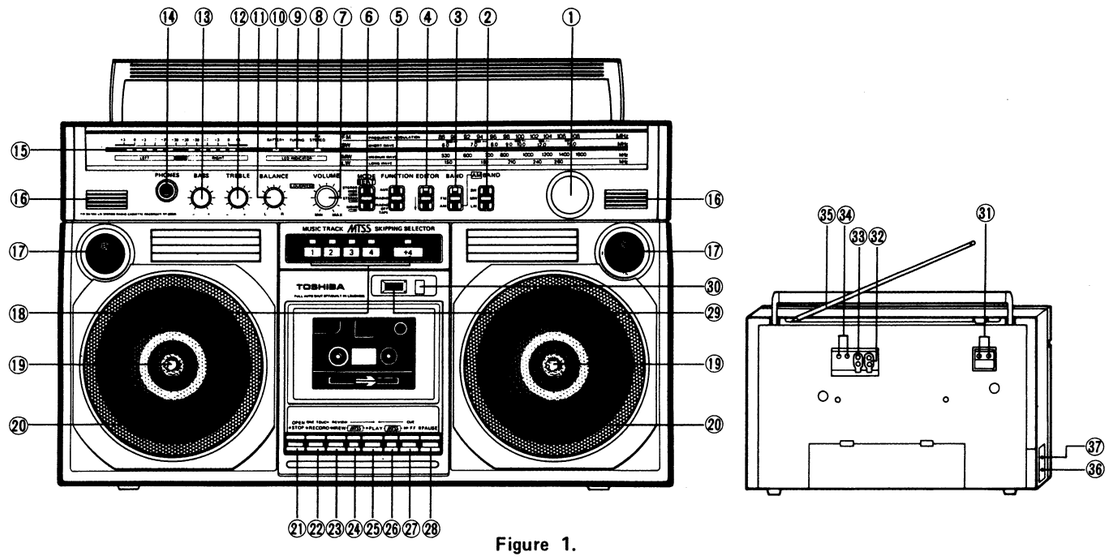


Figure 1.

① [TUNING] Knob

② [AM BAND] Selector
For selecting the LW, MW and SW bands.

③ [BAND] Selector
For selecting the FM or AM bands.

④ [EDITOR] Switch
If this switch is pressed when recording, the tape will continue to move passed the heads, but nothing will be recorded. Normal recording resumes when the switch is released.

⑤ [FUNCTION] Selector
Select the required program source by switching to the corresponding position.

AUX	For auxiliary inputs such as a record player (ceramic type cartridge) connected to the rear panel terminals.
RADIO	For listening to radio broadcasts.
RADIO OFF/TAPE	For tape playback, and recording via the built-in microphone.

⑥ [MODE/BEAT] Selector
Switch to the STEREO position for stereo listening, or to the MONO position for monaural listening. In the STEREO WIDE position, an even greater stereo effect is obtained.
If a beat noise is generated while recording radio broadcasts in the LW or MW bands, this beat can be minimized or removed altogether by changing the beat switch position.

⑦ [VOLUME] Control
Turn to adjust the volume level when listening on the speakers or headphones. In the low volume region marked LOUDNESS (thick line), the treble and bass tones are amplified to give more natural sound at low listening levels.

⑧ [FM STEREO] Indicator
This indicator lights when an FM stereo broadcast is received (even when the MODE/BEAT selector is in the MONO position.)

⑨ [TUNING] Indicator
This indicator lights when a broadcasting station is tuned.

⑩ [BATTERY] Indicator
This indicator lights while the set is turned on as long as there is sufficient power in the batteries. (When AC mains power is used, the lamp stays on.)

⑪ [BALANCE] Control
Turn this control to balance the volume levels from the left and right speakers. When this control is turned clockwise, the left speaker volume is reduced, when turned counter-clockwise, the right speaker volume is reduced.

⑫ [TREBLE] Tone Control
Turn to adjust the amount of treble in the music.

⑬ [BASS] Tone Control
Turn to adjust the amount of bass in the music.

⑭ [PHONES] Jack
To listen via a pair of headphones, connect to this jack. (Inserting the headphone plug automatically switches off the speakers.)

⑮ [VU] Level Meter
This meter indicates the recording level of both stereo channels during recording, and also the playback level when listening to tapes and to radio broadcasts.

⑯ Built-in Microphones

⑰ Tweeters (Speakers for high-pitched sound)

⑱ MTSS Music Selector Buttons and Indicators

⑲ Mid-Range Speakers (for mid-range to high-pitched sound)

⑳ Woofers (Speakers for low to mid-range sound)

㉑ [■STOP/OPEN] Key
To stop the tape, press this key once. To open the cassette compartment, press a second time.

㉒ [●ONE TOUCH RECORD] Key
When this keys is pressed, the [▶PLAY] key is automatically depressed, thereby starting recording.

㉓ [◀◀REW/REVIEW] Key
For rapid rewinding of the tape. If it is pressed while the [▶PLAY] key is till depressed, the tape will start to play again as soon as the [◀◀REW/REVIEW] key is released.

㉔ [Rewind MTSS] Key
When this key is pressed with [▶PLAY] key, the tape rewinds rapidly until a blank section of tape is reached, then the tape automatically stops for a moment, and then starts to play again from that position. (Note that the [◀◀REW/REVIEW] key is depressed automatically when this button is pressed.)

㉕ [▶PLAY] Key
Press this key to play recorded tapes.

㉖ [Fast Forward MTSS] Key
When this key is pressed with [▶PLAY] key, the tape advances rapidly until a blank section of tape is reached, then the tape automatically stops for a moment, and then starts to play again from that position. (Note that the [▶▶FF/CUE] key is depressed automatically when this key is pressed.)

㉗ [▶▶FF/CUE] Key
For rapid forward winding of the tape. If it is pressed while the [▶PLAY] key is still depressed, the tape will start to play again as soon as this button is released.

㉘ [II PAUSE] Key
Press to stop the tape temporarily during recording or playback. Press a second time to resume the recording or playback.

㉙ Tape Counter
By taking note of the counter reading at the start of a recording, the start position can be easily located later to replay the recording.

㉚ Counter Reset Button
The tape counter can be reset to <000> by pressing this button.

㉛ [EXT SP] Jacks
External speakers (input impedance from 3.2 to 8 ohm) may be connected to these jacks.

㉜ [LINE OUT] Jacks
The output signal may be fed to an external amplifier. A cords with phono plugs (optional) should be connected to these jacks.

㉝ [AUX] Jacks
To record via an external stereo amplifier, connect a cord with phono plugs (optional) to these jacks.

㉞ [MIC] Jacks
Microphones with 3.5 mm plugs (outside diameter) may be connected to these jacks.

㉟ Telescopic Antenna
Adjust the direction and length of this antenna to obtain optimum sound when listening to FM, and SW radio broadcasts.

㊱ [DC 13.5 V] Jack

㊲ [AC POWER] Socket

POWER SUPPLY

■ Batteries

1. To open the battery compartment in the rear of the set, press the cover catches down with both hands.
2. Insert the batteries as shown in the diagram, making sure that the (+) and (–) battery terminals are correctly positioned before replacing the cover.

■ Battery Power Check

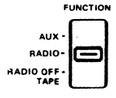
When the set is turned on, the [BATTERY] indicator ⑩ should light up. If it does not, the batteries have run down, and all nine batteries must be replaced with nine fresh SUM-1 "D" size batteries.

AC POWER

Insert the female plug of the power cord into the exposed (220-240 V) [AC POWER] socket ㊲ and insert the male plug of the power cord into 220-240 V AC outlet.

1 Listening to the Radio

1 Set the [FUNCTION] selector ⑤ to the RADIO position.



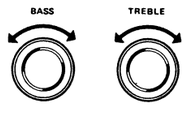
2 Set the [BAND] selector ③ to either the FM or AM position as desired.

3 Turn the [TUNING] knob ① to tune in the desired radio station. The [TUNING] indicator ⑨ will light up when the station is tuned. For FM stations, adjust the antenna ㉟ direction and length to obtain best reception. For short-wave stations, leave the antenna in the vertical position.

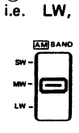
4 Adjust to a suitable volume level by turning the [VOLUME] control ⑦.

5 Also adjust to proper balance by turning the [BALANCE] control ⑪.

6 Adjust the tone by turning the [TREBLE] ⑫ and [BASS] ⑬ controls.



When the [BAND] selector set to the AM position, set the [AM BAND] selector ② to the desired band, i.e. LW, MW, or SW.

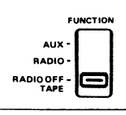


Note: When the [FUNCTION] selector ⑤ is set to either the RADIO or AUX positions, the power is not automatically switched off. For this operation the [FUNCTION] selector ⑤ must be in the RADIO OFF/TAPE position.

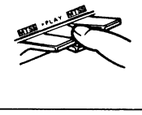
2 Listening to Tapes

1 Press the [■STOP/OPEN] key ㉑ to open the cassette compartment, and insert a recorded tape.

2 Set the [FUNCTION] selector ⑤ to the RADIO OFF/TAPE position.



3 Press the [▶PLAY] key ㉕ to start the tape.



4 Adjust the [VOLUME] ⑦, [BALANCE] ⑪, [TREBLE] ⑫ and [BASS] ⑬ controls.

- If the [▶▶FF/CUE] key ㉗ or [◀◀ REW/REVIEW] key ㉓ is pressed during playback, the tape will forward wind or rewind rapidly. When it stops, a "click" will be heard. This is normal, it does not indicate a fault.

Full Auto Shut-Off (ASO) Mechanism

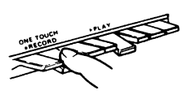
When the end of the tape is reached during playback, recording, fast forward or rewind modes, the ASO mechanisms stops the tape automatically, and releases the depressed keys.

3 Recording Radio Broadcasts

1 Turn to the desired station as described above under "Listening to the Radio".

2 Press the [■STOP/OPEN] key ㉑, and insert a blank tape.

3 Press the [●ONE TOUCH RECORD] key ㉒ to start recording.



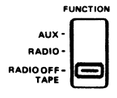
Since the RT-8860S has been designed with an automatic recording level adjustment circuit (ALC), a suitable recording level will be set automatically without any further operations.

Furthermore, this set also features a "variable monitor system" permitting the listener to change the listening volume without effecting the recording level.

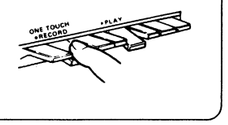
4 Recording via Built-In Microphones

1 Press the [■STOP/OPEN] key ㉑ and insert a blank tape.

2 Set the [FUNCTION] selector ⑤ to the RADIO OFF/TAPE position.



3 Press the [●ONE TOUCH RECORD] key ㉒ to start the recording.



5 Recording with External Microphones

Plug external microphones (optional) into the MIC jacks in the rear of the set, and then proceed in exactly the same way as described above. (Recording via Built-in Microphones)

6 Recording from other Audio Equipment

Connect an external amplifier or other audio equipment to the [AUX] jacks ㉝ set the [FUNCTION] selector ⑤ to the AUX position, and then proceed with steps 1 and 3 under Recording via Built-in Microphones, above.

THE MTSS (MUSIC TRACK SKIPPING SELECTOR) MECHANISM

What is MTSS?

The MTSS mechanism is designed to seek blank portions of tape between sections of recorded tape, and then to automatically commence playing from a blank portion. In the RT-8860S, the MTSS mechanism can jump up to 8 sections forward, or 7 sections backward, and then automatically start playing the selected piece of music or tune.

■ Repeated Listening to a Selected Piece of Music

1 Put the tape into playback mode as described earlier under "Listening to Tapes" on page 5.

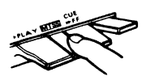
2 Press the [Rewind MTSS] key ㉔.

In the above two cases it is not necessary to press button [1] of the MTSS selector button ⑱.

■ Jumping the Present Piece of Music

1 Put the tape into playback mode as described earlier under "Listening to Tapes" on page 5.

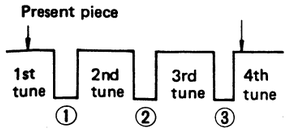
2 Press the [Fast Forward MTSS] key ㉖.



(So consequently, the corresponding music selector indicator ⑱ will not light up).

■ Jumping the Present Tune to Listen to the 4th Tune Ahead

Stop automatically to start playing from the beginning of this tune.

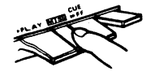


Number of blank portions between tunes (Number of umped tunes, in this case 3.)

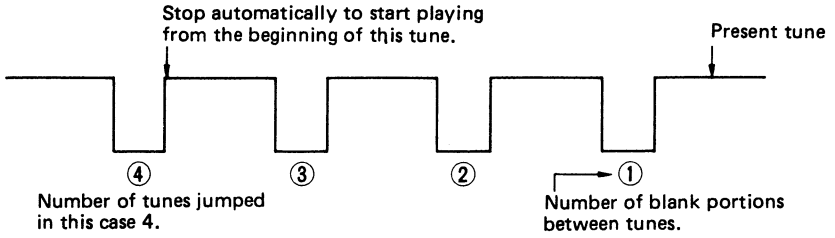
1 Put the tape into playback mode as described earlier under "Listening to Tapes" on page 5.

2 Press button [3] of the MTSS selector button ⑱.

3 Then press the [Fast Forward MTSS] key ㉖.

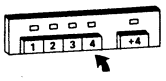


■ Jumping the Present Tune to Listen to the 4th Tune Back



1
Put the tape into playback mode as described earlier under "Listening to Tapes" on page 5.

2
Press button [4] of the MTSS selector buttons ⑱.



3
Then press the [Rewind MTSS] key ㉔.

- When jumping from 5 to 8 tunes, first press the appropriate MTSS selector button ⑱ (i.e. [1], [2], [3] or [4]) and then press the [+4] button.
  For example, to jump 7 tunes, first press button [3], and the [+4] button.

Note: Always press the [+4] button last. If it pressed before the other MTSS selector button, it will be cancelled when one of the other buttons ([1] – [4]) is pressed.

Caution: The MTSS mechanism may fail to operate correctly in the following situations.
- When a blank (non-recorded) portion of tape is too short (less than 5 seconds).
- When a blank portion of tape contains noise.
- When a piece of music contains rather lengthy sections of pianissimo (very soft sound) or silence.
- When a piece was recorded at an extremely low level.
- When the batteries have run down.
- When the MTSS button is pressed accidently without pressing the [▶PLAY] key ㉕ first (in which case, the tape will be switched to fast forward or rewind modes).
- Where the [Rewind MTSS] key ㉔ is pressed almost immediately after the start of a piece of music, or where the [Fast Forward MTSS] key ㉖ is pressed just before the end of a tune (in which the case the tune following the next will be played instead of the next).

■ Recording a Tape for Automatic Music Selection Use

- When recording from the radio or via microphones, record blank portions of tape between each wound recording in the following way.

1 At the end of a recording, press the [EDITOR] switch ④ letting the tape continue moving for at least 5 seconds.
2 Then press the [II PAUSE] key ㉘ to stop the tape, and release the [EDITOR] switch ④ after the tape has stopped.
3 After a commercial or other unwanted announcements have finished, press the [II PAUSE] key ㉘ again to start recording again.

PLAYBACK MIXING

When optional external microphones are to be used, live sounds can be mixed with sound from a played-back tape. If only one microphone is available, connect it to the L channel jack—the sound will still be heard from both left and right speakers. (The external microphone jacks require 3.5 mm plugs).

TIMER RECORDINGS

■ By connecting the RT-8860S to an audio timer (optional), radio programs can be recorded at any desired preset time.

1 Tune to the desired radio station as described earlier under "Listening to the Radio" on page 5.
2 Insert a blank cassette tape in the compartment.
3 Set the audio timer to the desired recording start time, and then connect the RT-8860S power cord to the timer.
4 Press the [● ONE TOUCH RECORD] key ㉒.
5 At the preset time, the RT-8860S power will be switched on, and recording will start completely automatically.

Note: 1 The timer recording will not start at the preset time if the [II PAUSE] key ㉘ has been left set.
Note: 2 When the end of the tape is reached at the end of the recording, the full ASO mechanism will stop the tape and release the keys, but the radio power will remain on. In order to have the RT-8860S power supply completely switched off after a recording, an audio timer that has been designed to switch the power off again at the end of a recording must be used.

2. DISASSEMBLY INSTRUCTIONS

FRONT CABINET REMOVAL

1. Remove 10 Knobs (A).
2. Remove 7 screws (B) to detach the Front Cabinet.

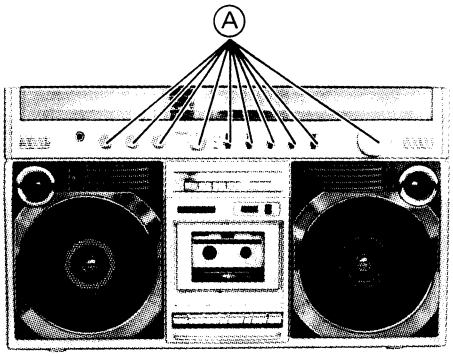


Figure 2.

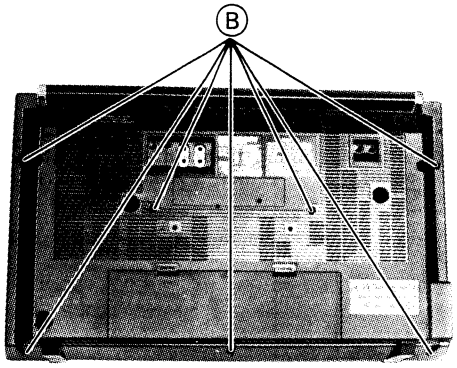


Figure 3.

MAIN P.C. BOARD REMOVAL

1. Remove 2 screws (C) to detach the Main P.C. Board.

MTSS P.C. BOARD REMOVAL

1. Remove 2 screws (D) to detach the MTSS P.C. Board.

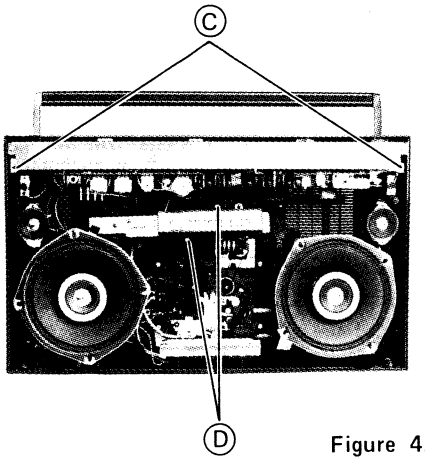


Figure 4.

POWER SUPPLY P.C. BOARD REMOVAL

1. Remove speaker.
2. Remove 4 screws (E) to detach the Power Supply P.C. Board.

MECHANICAL ASSEMBLY REMOVAL

1. Remove 4 screws (F) to detach the Mechanical Assembly.

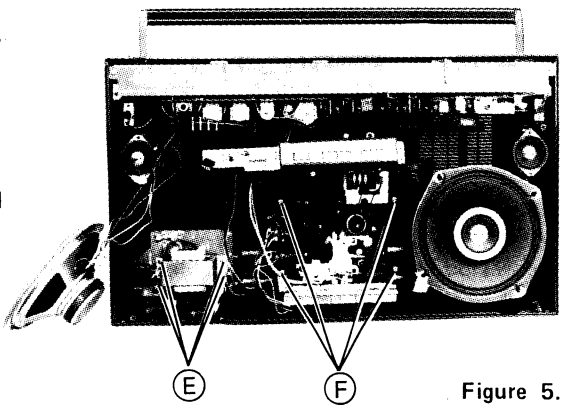


Figure 5.

3. HANDLE REMOVAL

When replacing the handle, remove it by cutting the handle washer shown in figure below with nipper etc.

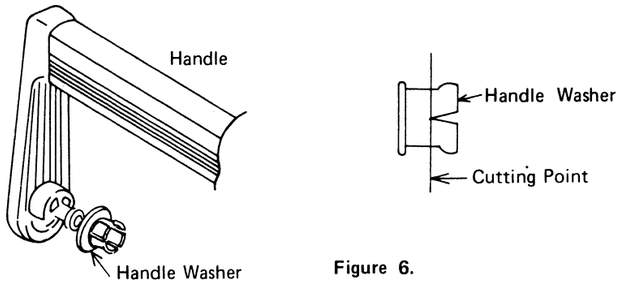


Figure 6.

4. METHOD OF P.R.C. REPAIRING

Cut defective printed-resistor-circuit off by knife. See Figure 7. Solder the replacement resistor (See replacement resistor parts list) on the opposite side of printed-circuit-board. See Figure 8.

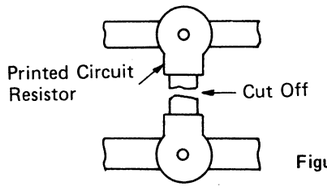


Figure 7.

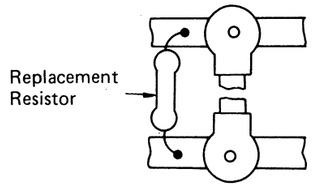
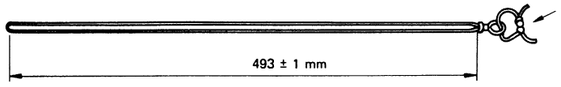


Figure 8.

5. DIAL CORD RESTRINGING



1. Turn the tuning shaft fully counterclockwise.
2. Adjust the pointer to "0" with the tuning shaft turning extremely counterclockwise.

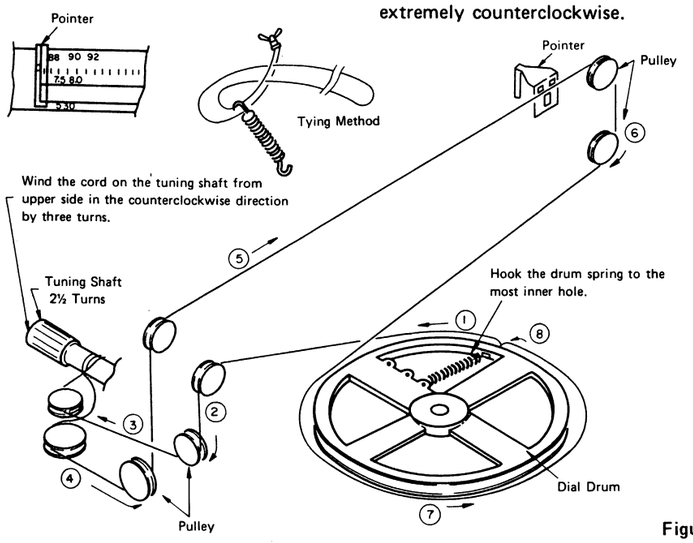


Figure 9.

6. BLOCK DIAGRAM

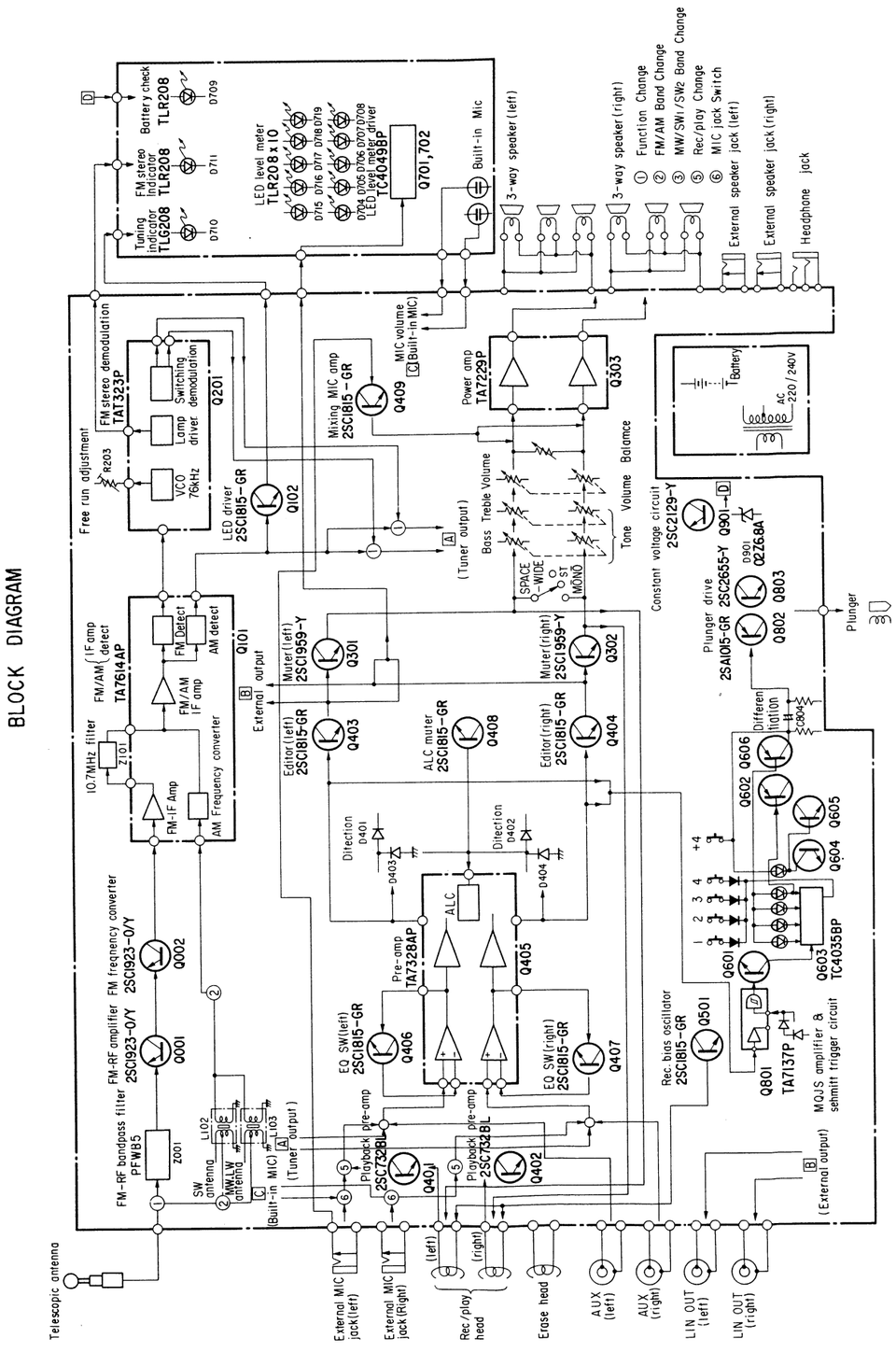


Figure 10.

7. ALIGNMENT INSTRUCTIONS

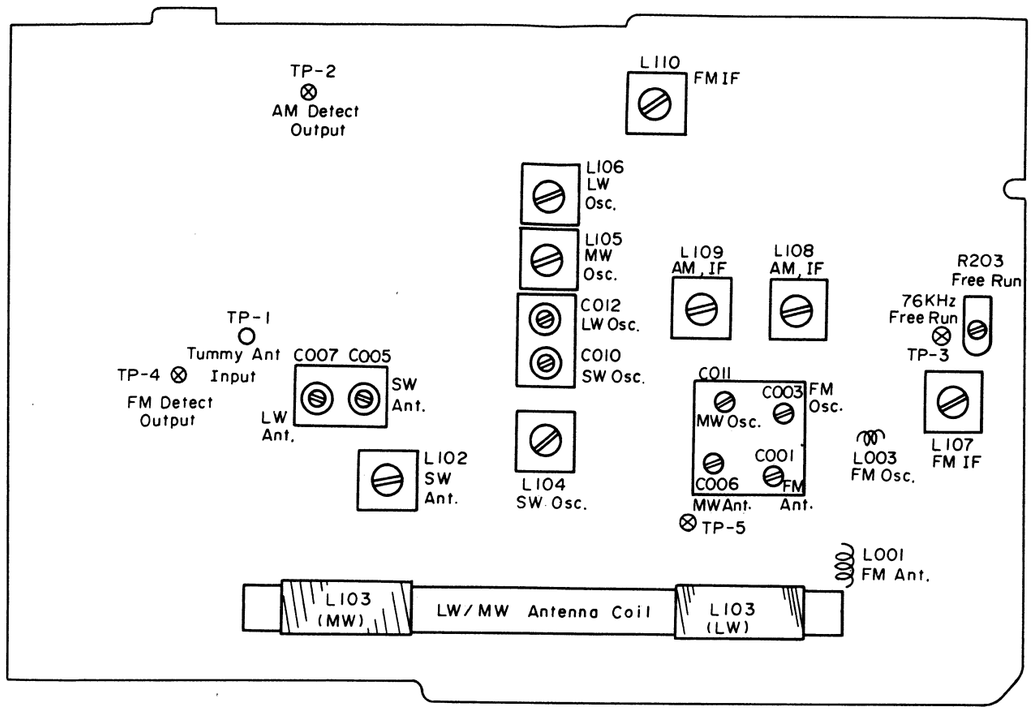


Figure 11.

TEST EQUIPMENT

1. Signal generator with a frequency range of at least from 140 kHz to 16 MHz AM.
2. Oscilloscope with a wide range amplifier of approximately 100 kHz.
3. Test loop – a coil of any size wire, one turn or more. (MW)
4. A 30 ohm dummy antenna. (SW)
5. VTVM

AM ALIGNMENT

1. Turn on the AM signal generator and the VTVM allowing a fifteen-minute warm-up period.
2. Using the test loop across the output of the signal generator, inductively connect the signal generator to the radio.
3. Connect the VTVM across the voice coil or a 3.2 ohm dummy load.
4. Set signal generator frequency as listed in ALIGNMENT CHART and maintain a sufficient output level to provide an indication on VTVM.
5. Set volume control at mid-position.
6. Proceed as outlined in the IF-LW, MW and SW ALIGNMENT CHART.

MW ALIGNMENT CHART

Band	Step	Signal Generator Frequency	Radio Dial Setting	Adjustment	Remarks
IF	1	460 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	L108, L109	Adjust for maximum indication.
MW	2	510 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	OSC. coil L105 (MW)	Adjust for maximum indication.
	3	1650 kHz	Tuning Gang Fully clockwise (Highest Frequency)	OSC. Trim C011	Adjust for maximum indication.
	4	Repeat steps 2 and 3 as required.			
	5	600 kHz	Tune to Signal.	Ant. Coil L103 (MW)	Adjust for maximum indication.
	6	1400 kHz	Tune to Signal.	Ant. Trim C006	Adjust for maximum indication.
	7	Repeat steps 5 and 6 as required.			

LW & SW ALIGNMENT CHART

Band	Step	Signal Generator Frequency	Radio Dial Setting	Adjustment	Remarks
LW	1	142 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	OSC. Coil L106	Adjust for maximum indication.
	2	280 kHz	Tuning Gang Fully Clockwise (Highest Frequency)	OSC. Trim. C012	Adjust for maximum indication.
	3	Repeat steps 1 and 2 as required.			
	4	160 kHz	Tune to Signal.	Ant. Coil L103 (LW)	Adjust for maximum indication.
	5	280 kHz	Tune to Signal.	Ant. Trim C007	Adjust for maximum indication.
	6	Repeat steps 4 and 5 as required.			
SW	1	5.75 MHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	OSC. Coil L104	Adjust for maximum indication.
	2	16 MHz	Tuning Gang Fully Clockwise (Highest Frequency)	OSC. Trim. C010	Adjust for maximum indication.
	3	Repeat steps 1 and 2 as required.			
	4	6.5 MHz	Tune to Signal.	Ant. Trim. L102	Adjust for maximum indication.
	5	14 MHz	Tune to Signal.	Ant. Trim. C005	Adjust for maximum indication.
	6	Repeat steps 4 and 5 as required.			

FM-IF ALIGNMENT

1. Set the selector switch to FM position.
2. Turn on both sweep generator and oscilloscope, and allow a fifteen-minute warm-up period.
3. Connect the RF SWEEP SIGNAL OUTPUT from the signal generator through the loop antenna to the receiver.
4. Connect the oscilloscope vertical input directly to the test point TP-1 and connect the shielded lead to the test point E or chassis ground.
5. Connect the SWEEP VOLTAGE OUTPUT of the sweep generator to the oscilloscope.
6. Proceed as outlined in the FM-IF ALIGNMENT CHART.

FM-IF ALIGNMENT CHART

Step	Signal coupling	Equip.	Tuning	Connection	Adjust. point	Pattern
1	Connect sweep generator output to a three-turn loop antenna of 10cm diameter.	Sweep generator of 10.7 MHz center freq. with 10.7 MHz marker.	Tuning Knob fully counter-clockwise (Lowest Frequency.)	Set scope for connecting output signal from TUN OUT to vertical axis of scope "V" and sweep generator output to horizontal axis "H".	L107 L110	Turn the coil L110 fully counterclockwise to obtain a single peak. Fig. 13 Adjust coil L107 in order until the best single peak is obtained: Finally turn the coil L110 to obtain S curb. Fig. 14

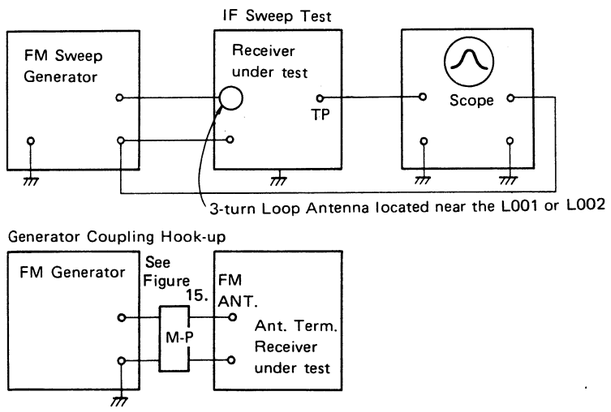


Figure 12.

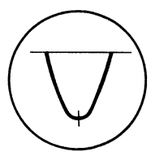


Figure 13.

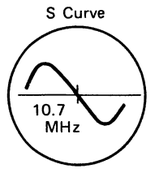


Figure 14.

FM-RF ALIGNMENT

1. Turn on the signal generator and the VTVM, and allow a fifteen-minute warm-up period.
2. Connect the signal generator output through a 75 ohm dummy antenna across FM ANT.
3. Connect the VTVM across the voice coil or a 3.2 ohm dummy load.
4. Set the volume control to mid-position.
5. Adjust the signal generator frequency as indicated in FM-RF ALIGNMENT CHART, and maintain a sufficient signal output level to provide a measurable indication.
6. Proceed as outlined in the FM-RF ALIGNMENT CHART.

FM-RF ALIGNMENT CHART

Step	Signal Generator	Radio Dial Setting	Adjustment	Remarks
1	87.5 MHz	Tuning Knob fully Counterclockwise (Lowest Frequency)	OSC. Coil L003	Adjust for maximum output indication
2	109 MHz	Tuning Knob fully Clockwise (Highest Frequency)	OSC. Trim. C003	Adjust for maximum output indication
3	Repeat steps 1 and 2 as required.			
4	90 MHz	Tune to signal	Ant. Coil L001	Adjust for maximum output indication
5	106 MHz		Ant. Trim. C001	
6	Repeat steps 4 and 5 as required.			

CAUTION: When realigning the FM Receiving Frequency, the lowest side of the frequency range must not be below 87.5 MHz in order to comply with FTZ regulations in West Germany.

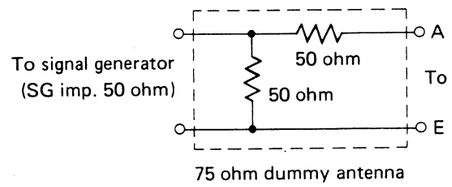


Figure 15.

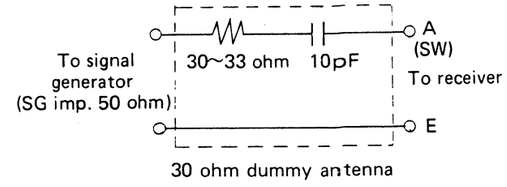


Figure 16.

FREE RUN FREQUENCY ALIGNMENT

Adjust R203 under no signal condition so as to obtain 76 kHz ± 200 Hz.

RECORD/PLAYBACK HEAD ADJUSTMENT

A 6.3 KHz standard tape must be used for this adjustment. Connect a VTVM or an oscilloscope to the EXT Speaker jack and adjust the azimuth by using a phillips screwdriver to maintain the maximum output voltage.

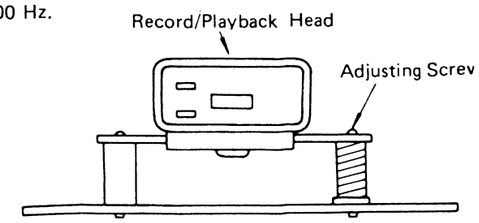


Figure 17. Record/Playback Head Adjustment

8. ELECTRICAL PARTS LOCATIONS

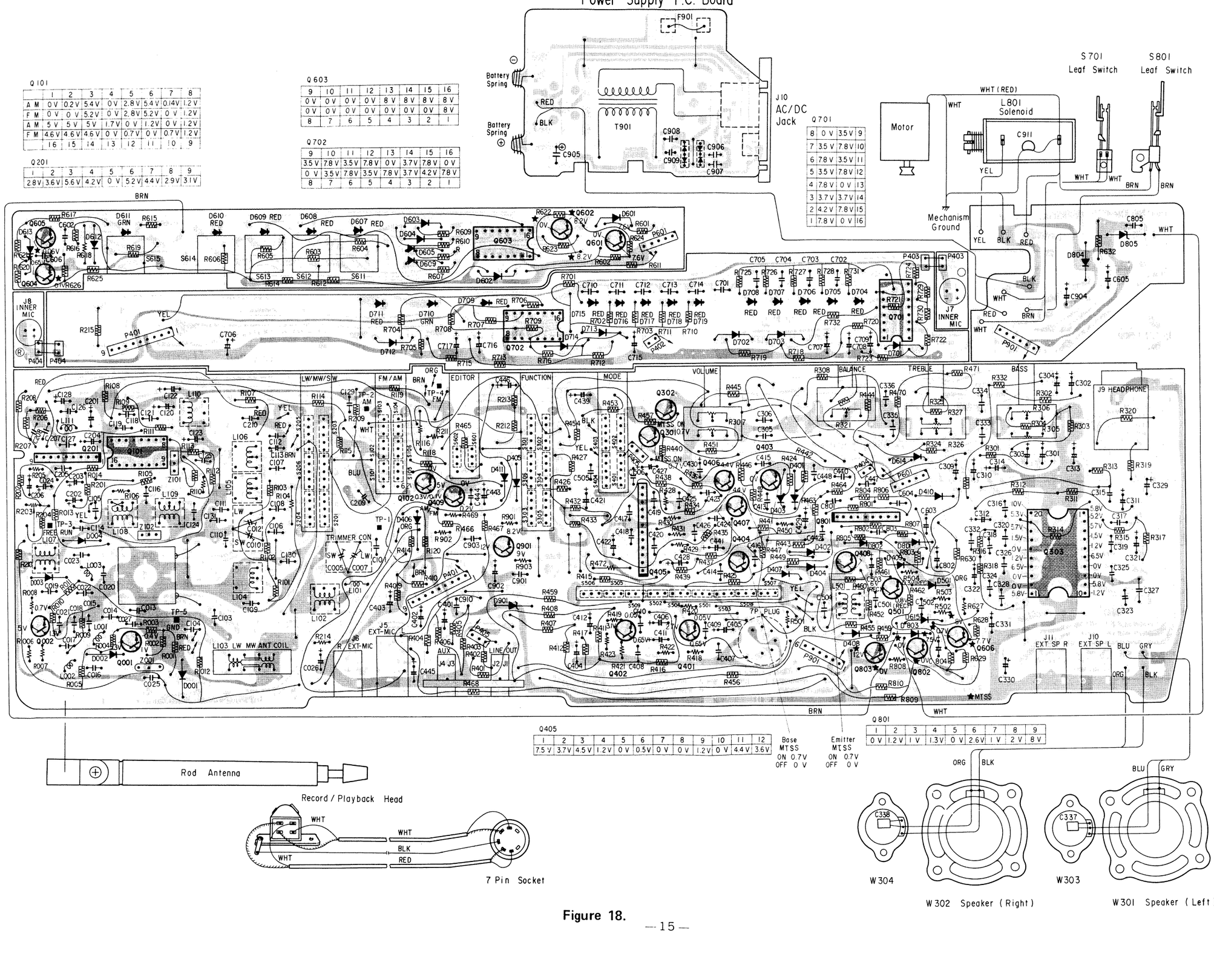
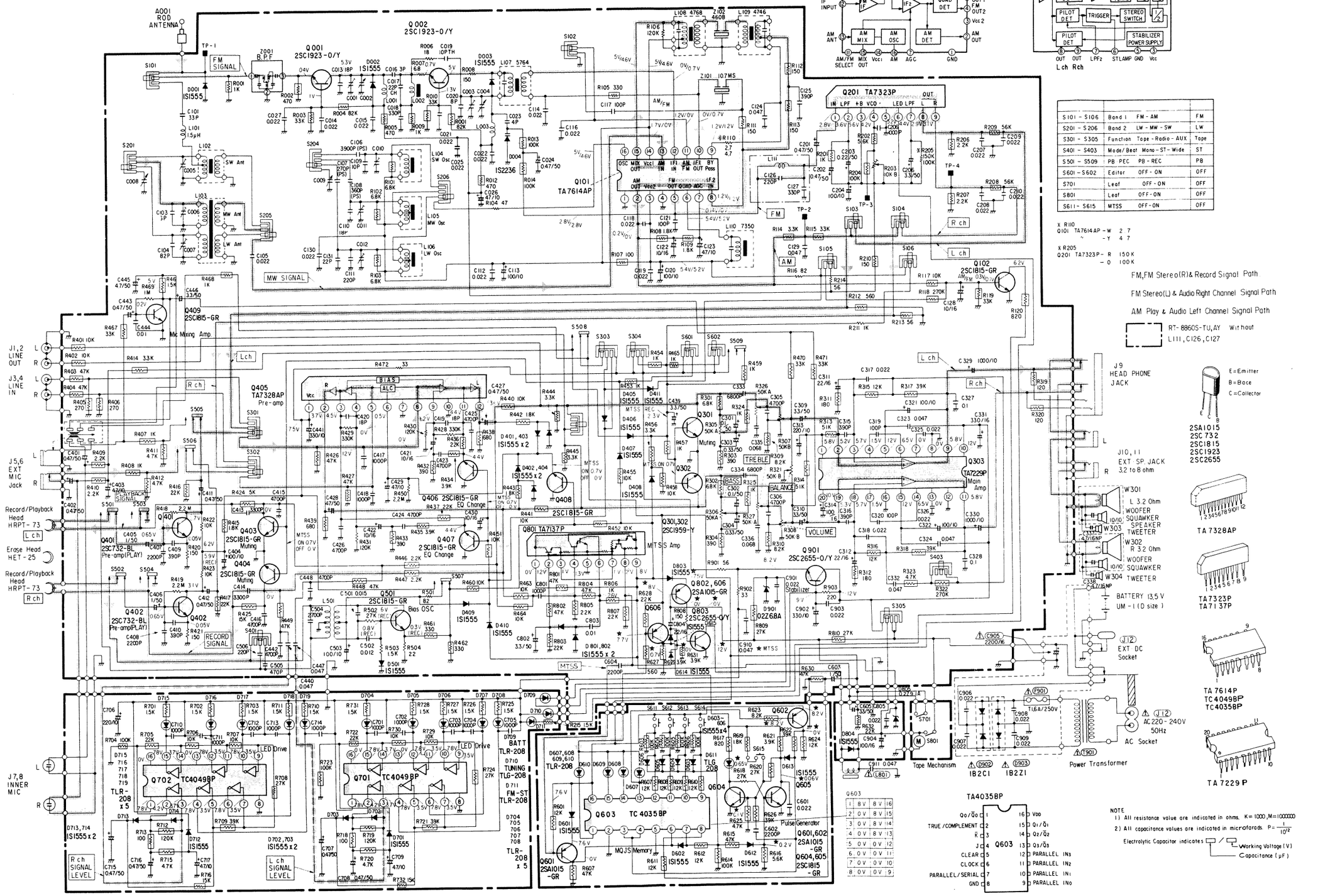


Figure 18.

9. SCHEMATIC DIAGRAM



CAUTION:
The ⚠ mark, the symbol No. circled with rectangle in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

Figure 19.

10–1. MECHANISM EXPLODED VIEW (UPPER)

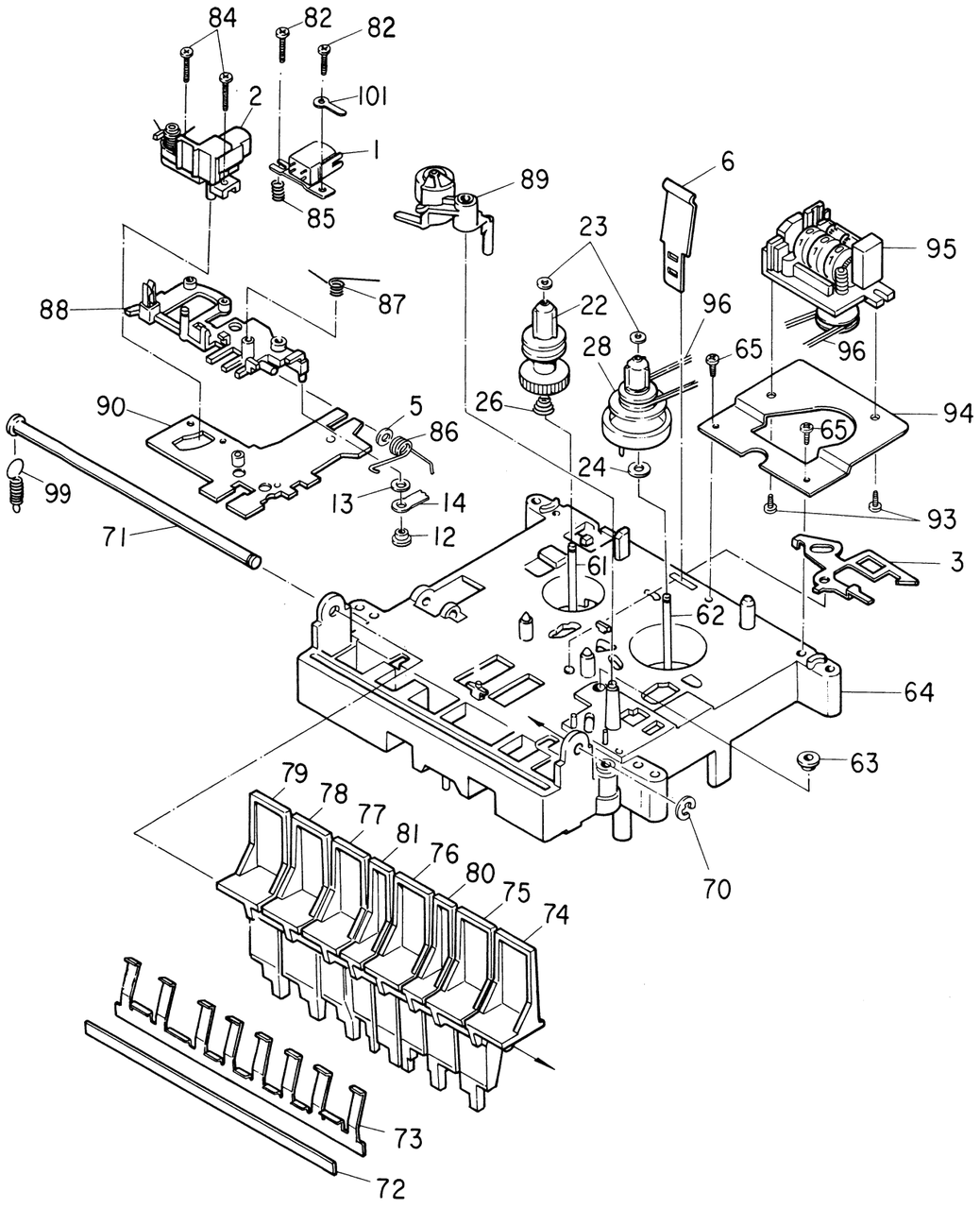


Figure 20.

NOTE: Excluded parts in the Parts List are not available as replacement parts.

10–2. MECHANISM EXPLODED VIEW (LOWER)

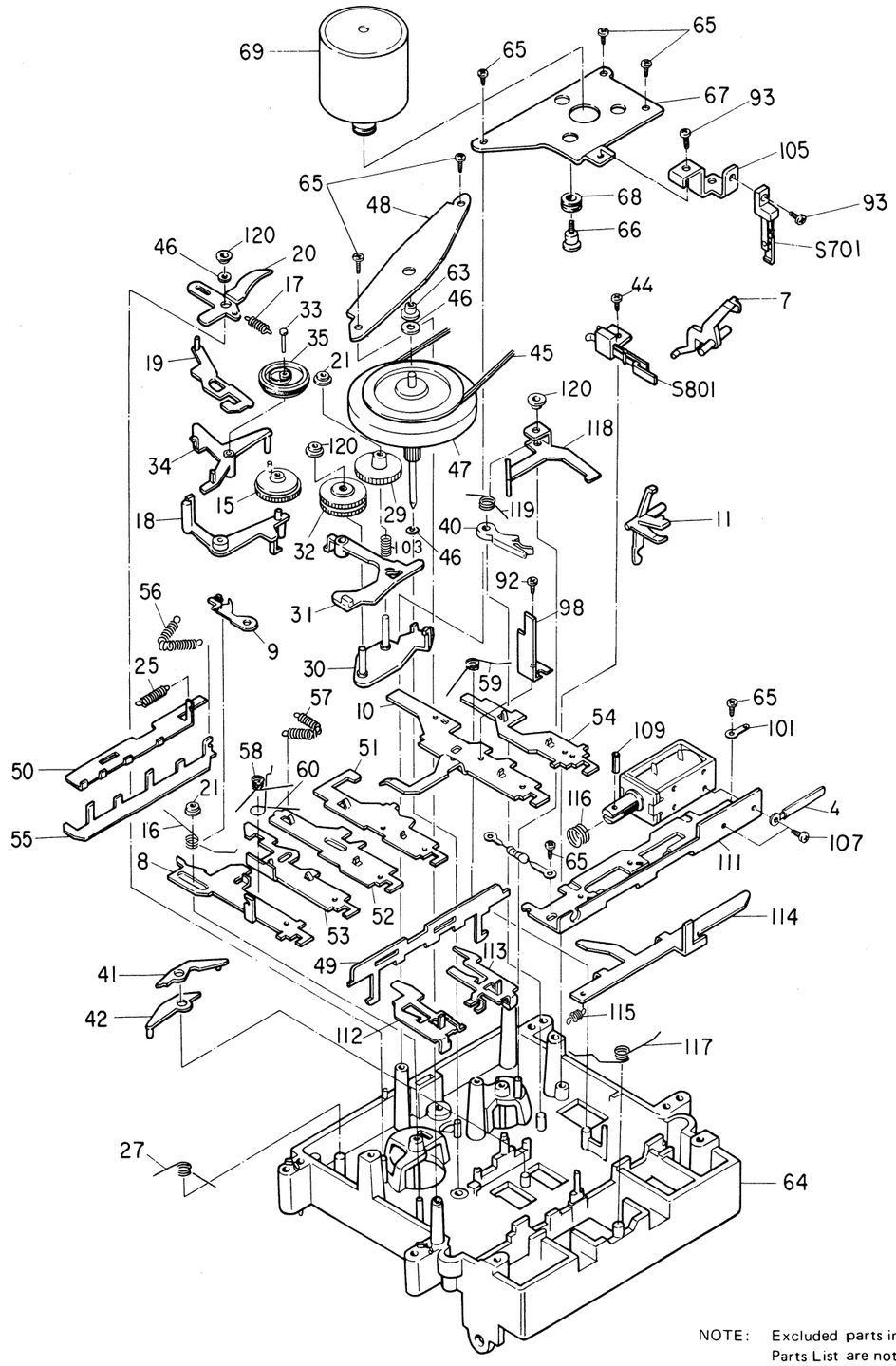


Figure 21.

NOTE: Excluded parts in the Parts List are not available as replacement parts.

11. CABINET EXPLODED VIEW

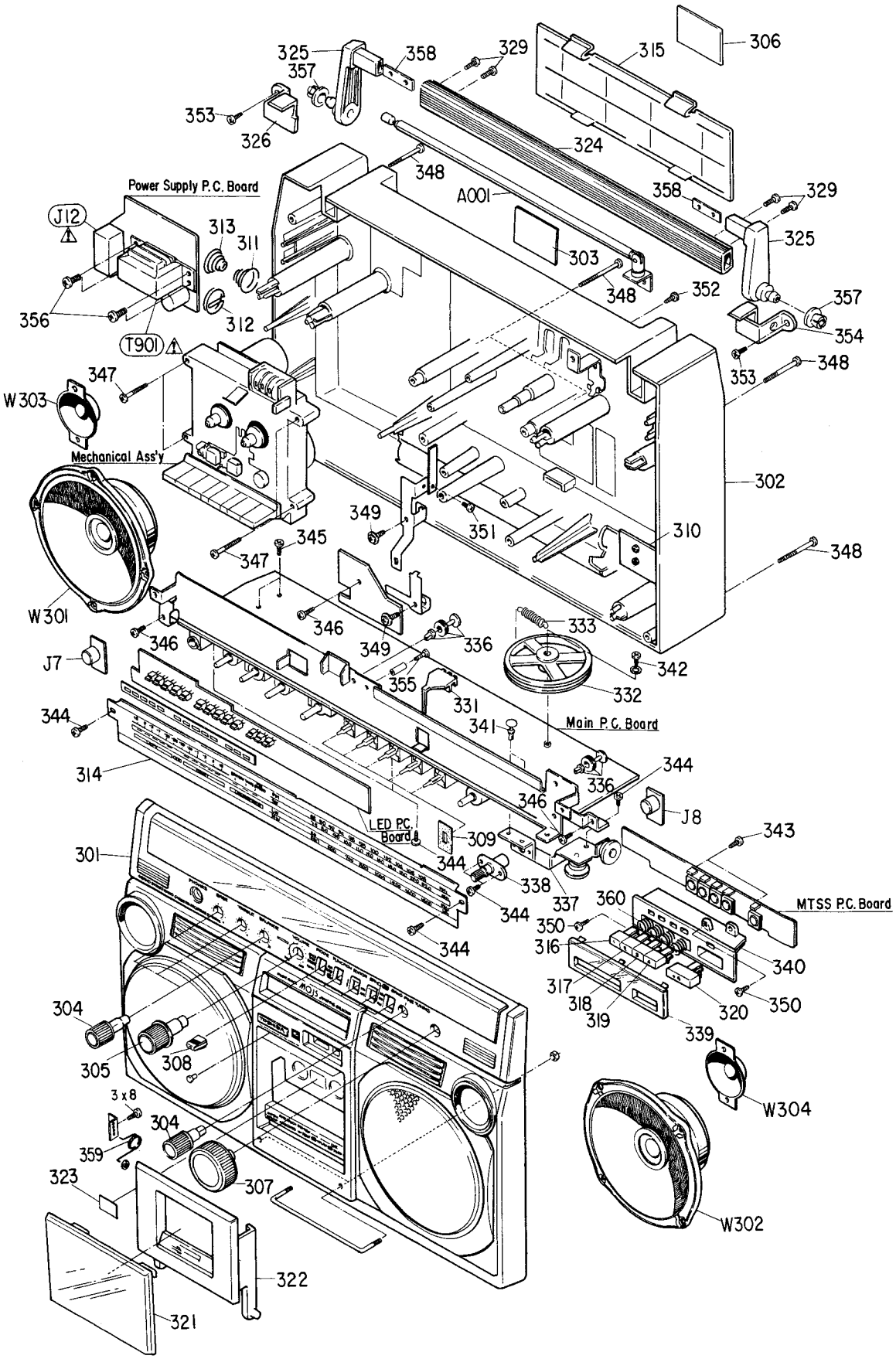


Figure 22.

NOTE: Excluded parts in the Parts List are not available as replacement parts.

12. PARTS LIST

CAUTION: The ⚠ mark, the symbol No. circled with rectangle in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

Symbol No.	Part No.	Description
		CABINET PARTS
301	25881012	Cabinet Front Ass'y
302	25817855	Cabinet Back Ass'y
303	25828753	Nameplate
304	25837351	Knob, Bass/Treble/Balance/ Mic Volume
305	25837352	Knob, Volume
306	25828576	Caution Plate
307	25837353	Knob, Tuning
308	25837354	Knob, Function/Editor/ Band/AM Band/Mode
309	25858490	Cover, Switch
310	22702138	Push Nut, 3ϕ
311	25772575	Spring, Battery
312	25772570	Spring, Battery
313	25772571	Spring A, Battery
314	25828756	Dial Plate
315	25817811	Cover Ass'y, Battery
316	25837363	Button A, MTSS, 1
317	25837364	Button B, MTSS, 2
318	25837365	Button C, MTSS, 3
319	25837366	Button D, MTSS, 4
320	25837367	Button E, MTSS, +4
321	25838273	Cover, Cassette
322	25817722	Cover Ass'y, Cassette
323	25824247	Reflector
324	25835412	Handle
325	25835413	Holder, Handle
326	25846369	Retainer, Handle Left
329	22707169	Screw, 2.6ϕ x 10mm, BID, BLK
331	22741315	Pointer
332	22742201	Drum
333	25771548	Spring, Drum
336	22742218	Pulley Ass'y
337	22749263	Retainer Ass'y, With Pulley
338	22749212	Tuning Shaft Ass'y
339	25846429	Cover, MTSS
340	25846430	Holder, MTSS
341	22705022	Plastic Rivet, 3ϕ x 5.5mm
342	22707473	Screw, 2.6ϕ x 6mm, BID
343	22707303	Screw, 2.6ϕ x 10mm, Tapping
344	22707066	Screw, 3ϕ x 6mm, BID
345	22707163	Screw, 3ϕ x 10mm, BID
346	22707266	Screw, 3ϕ x 16mm, BID, RED
347	22707552	Screw, 3ϕ x 30mm, Tapping, RED
348	22701334	Screw, 3ϕ x 35mm, Tapping, BLK
349	22707200	Screw, 3ϕ x 10mm, TPAN
350	22707567	Screw, 3ϕ x 20mm, Tapping, RED

Symbol No.	Part No.	Description
351	22707151	Screw, 2.6ϕ x 5mm, BID
352	22701325	Screw, 3ϕ x 8mm, BID, BLK
353	22707276	Screw, 3ϕ x 16mm, Tapping
354	25846453	Retainer, Handle Right
355	22707369	Screw, 2.6ϕ x 12mm, DTBID
356	22707472	Screw, 4ϕ x 12mm, Tapping
357	25835411	Washer, Handle
358	25846369	Retainer, Handle
359	25773474	Spring, Cassette Up
360	25777001	Spring, MTSS Button
		MECHANISM
1	22217351	Head, Record/Playback, HRPT-73
2	25719545	Head Ass'y, Erase (HET-25)
5	25764550	Washer, 3.6ϕ
7	25782253	Lever, Cassette Up
8	25741599	Operation Plate, Pause
9	25782173	Lock Lever, Pause
10	25741546	Operation Plate, Record
11	25782248	Lock Lever, Record
13	25764476	Washer, 3ϕ
16	25773486	Spring, ASO Lever
17	25776043	Spring
18	25782247	Lever, ASO
19	25782332	Lever, Detect
20	25782333	Swing Lever
21	25783195	Bushing
22	25754338	Hub Plate, Supply
23	25764549	Washer, 1.7ϕ
24	25764566	Washer
25	25771617	Spring
26	25772578	Compress Spring
27	25773442	Spring, Idler
28	25712367	Hub Plate, Take-up
29	25756179	High-speed Gear A
30	25782251	Lever, Take-up
31	25782252	Lever, Fast Forward
32	25719491	High-speed Gear Ass'y B
35	25713505	Idler Ass'y, Take-up
40	25782275	Lever, Record Lock
44	22701326	Screw, BID3ϕ x 8mm, Tapping
45	25755335	Belt, Drive
46	25764398	Washer, 2.5ϕ
47	25717391	Flywheel Ass'y
51	25741545	Operation Plate, Rewind
52	25741787	Operation Plate, Play A
53	25741757	Operation Plate, Fast Forward
54	25741759	Operation Plate, Stop
56	25771955	Spring, Lock Slider

Symbol No.	Part No.	Description
57	25771956	Spring, Operation Plate C
58	25773484	Spring, Operation Plate A
59	25773369	Spring, Operation Plate B
60	25773405	Spring, Click
63	25725340	Holder
65	22707301	Screw, BID2.6ϕ x 8mm, Tapping
66	22707429	Screw, 2.6ϕ x 6.7mm, Special
68	25761238	Cushion, Motor
69	25791133	Motor Ass'y
70	22703280	Retaining Ring, 4ϕ
72	25761403	Cushion, Button
73	25779061	Spring, Button
74	25837415	Button, Pause
75	25837416	Button, Fast Forward
76	25837417	Button, Play
77	25837418	Button, Rewind
78	25837419	Button, Record
79	25837420	Button, Stop
80	25837421	Button, MTSS, Fast Forward
81	25837422	Button, MTSS, Rewind
82	22707602	Screw, BID2ϕ x 10mm
84	22707322	Screw, DTBID2ϕ x 10mm
85	25772585	Spring, Azimuth
86	25773365	Spring, Head Slider
87	25773366	Spring, Pressure Roller
88	25783224	Retainer, Head
89	25717392	Pressure Roller
92	22707350	Screw, DTBID2.6ϕ x 5mm
93	22707300	Screw, BID2.6ϕ x 6mm
95	25873196	Counter
96	25755387	Belt, Counter
107	22707475	Screw, BID2.6ϕ x 4mm
115	25771450	Spring, Rewind Lever
116	25772321	Spring, Solenoid
117	25773476	Spring, MQSS Slider
119	25773477	Spring, MQSS Switch Lever
120	25783226	Bushing

TRANSISTORS, ICS & DIODES

Q001, 002		Transistor, 2SC1923-O/Y
Q101		IC, TA7614AP
Q102		Transistor, 2SC1815-GR
Q201		IC, TA7323P
Q301, 302		Transistor, 2SC1959-Y
Q303		IC, TA7229P
Q401, 402		Transistor, 2SC732-BL
Q403, 404		Transistor, 2SC1815-GR
Q405		IC, TA7328AP
Q406, 407, 408		Transistor, 2SC1815-GR
Q501		Transistor, 2SC1815-GR
Q601, 602		Transistor, 2SA1015-GR
Q603		IC, TC4035BP
Q604, 605		Transistor, 2SC1815-GR
Q606		Transistor, 2SA1015-GR
Q701, 702		IC, TC4049BP
Q801		IC, TA7137P
Q802		Transistor, 2SA1015-GR
Q803		Transistor, 2SC2655-Y
Q901		Transistor, 2SC2655-Y
D001, 002, 003		Diode, 1S1555V
D004		Diode, 1S2236
D401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411		Diode, 1S1555V
D501		Diode, 1S1555V
D601, 602, 603, 604, 605, 606,		Diode, 1S1555V
D607, 608, 609, 610		Diode, TLR208, LED
D611		Diode, TLG208, LED
D612, 613, 614, 615		Diode, 1S1555V
D701, 702, 703		Diode, 1S1555V
D704, 705, 706, 707, 708, 709		Diode, TLR208, LED
D710		Diode, TLG208, LED
D711		Diode, TLR208, LED
D712, 713, 714		Diode, 1S1555V
D715, 716, 717, 718, 719		Diode, TLR208, LED
D801, 802, 803, 804		Diode, 1S1555V
D805		Diode, 02Z9.1A
D901		Diode, 02Z6.8A
⚠ D902		Diode, 1B2C1
⚠ D903		Diode, 1B2Z1

COILS & TRANSFORMERS

L001	22294004	Coil, FM RF
L002	22294361	Coil, FM RF
L003	22294019	Coil, FM RF
L101	22291103	Coil, Choke, 1.5μH
L102	22282145	Coil, Antenna, SW
L103	22242797	Coil, Antenna, MW/LW
L104	22285261	Coil, Oscillator, SW

Symbol No.	Part No.	Description
L105	22245322	Coil, Oscillator, MW
L106	22245322	Coil, Oscillator, LW
L107	22265764	IF Transformer, FM
L108	22264768	IF Transformer, FM
L109	22264746	IF Transformer, FM
L110	22267350	IF Transformer, AM
L111	22232219	Coil, 8.85mH (TE)
L501	22235180	Coil, Bias Oscillator
⚠ L801	22147211	Solenoid Coil
⚠ T901	22223759	Transformer, Power (TE)
⚠ T901	22223760	Transformer, Power (TU)
⚠ T901	22223834	Transformer, Power (AY)
ELECTRICAL PARTS		
S101 ~ 106	22195161	Switch, Lever, Band, FM/AM
S201 ~ 206	22195351	Switch, Lever, Band, LW/MW/SW
S301 ~ 305	22195161	Switch, Lever, Function, TAPE/RADIO/AUX
S401 ~ 403	22195072	Switch, Lever, Mode-Beat MONO/ST/Wide
S501 ~ 509	22195468	Switch, Slide, Record/Playback
S601, 602	22195522	Switch, Lever, Editor ON/OFF
S611 ~ 615	22195145	Switch, Key, MTSS
S701	22195555	Switch, Leaf, MTSS
S801	22195603	Switch, Leaf, Motor
J1, 2, 3, 4	22163789	Jack, US-4P, LINE OUT/LINE IN
J5	22163668	Jack, EXT MIC, With Switch
J6	22163666	Jack, EXT MIC, 3.5ø
J7, 8	22154225	Microphone Unit, INNER MIC
J9	22163778	Jack, Headphone, 6ø
J10, 11	22163666	Jack, EXT SP, 3.5ø
⚠ J12	22167876	AC Socket, AC/DC-2P
Z001	22153121	Filter, Band-pass
Z101	22153058	Filter, Ceramic, 10.7MS
Z102	22153083	Filter, Ceramic, 460B
W301, 302	22152314	Speaker, Woofer, 16cm
W303, 304	22152308	Speaker, Tweeter, 4cm
A001	22124481	Rod Antenna
⚠ F901	22144293	Fuse, T 1.6A/250V
CAPACITORS		
D = 0.5pF, J = ±5%, K = ±10%, M = ±20%, Z = –20+80%		
ABBREVIATIONS: CD=Ceramic Disk, MY=Mylar, EL=Electrolytic, PP=Polypropylene, PS=Polystyrene, BL=Barrier Layer		
C001, 002, 003, 004, 006, 008, 009, 011	22308419	Variable, VC-4-20/335
C005, 007	22309155	Trimmer, Max 10pF

Symbol No.	Part No.	Description
C010, 012	22309155	Trimmer, Max 10pF
C013	22362180	CD, 18pF, 50V, K
C014	22342223	CD, 0.022mfd, 50V, Z
C015	22342223	CD, 0.022mfd, 50V, Z
C016	22361309	CD, 3pF, 50V, D
C017	22360134	CD, 22pF, 50V, J, CH
C018	22349331	CD, 330pF, 50V, K
C019	22360314	CD, 10pF, 50V, D, TH
C020	22361809	CD, 8pF, 50V, D
C021	22342223	CD, 0.022mfd, 50V, Z
C022	22360329	BL, 0.022mfd, 25V, M
C023	22361409	CD, 4pF, 50V, D
C024	22488478	EL, 0.47mfd, 50V
C027	22342223	CD, 0.022mfd, 50V, Z
C101	22362330	CD, 33pF, 50V, K
C103	22361609	CD, 6pF, 50V, D
C104	22362820	CD, 82pF, 50V, K
C105	22373223	MY, 0.022mfd, 50V, M
C106	22321064	PP, 3900pF, 50V, J
C107	22321048	PP, 270pF, 50V, J
C108	22321016	PP, 360pF, 50V, J
C109	22361100	CD, 10pF, 50V, D
C110	22362180	CD, 18pF, 50V, K
C111	22362221	CD, 220pF, 50V, K
C112	22360329	BL, 0.022mfd, 25V, M
C113	22483101	EL, 100mfd, 10V
C114	22342223	CD, 0.022mfd, 50V, Z
C116	22342223	CD, 0.022mfd, 50V, Z
C117	22362101	CD, 100pF, 50V, K
C118	22342223	CD, 0.022mfd, 50V, Z
C119	22373223	MY, 0.022mfd, 50V, M
C120	22483101	EL, 100mfd, 10V
C121	22362101	CD, 100pF, 50V, K
C122	22485100	EL, 10mfd, 16V
C123	22440303	EL, 47mfd, 10V
C124	22360484	CD, 0.047mfd, 50V, Z
C125	22349391	CD, 390pF, 50V, K
C126	22349221	CD, 220pF, 50V, K (TE)
C127	22349331	CD, 330pF, 50V K (TE)
C128	22485100	EL, 10mfd, 16V
C129	22360331	BL, 0.047mfd, 25V, M
C130	22360329	BL, 0.022mfd, 25V, M
C131	22362220	CD, 22pF, 50V, J
C201	22488478	EL, 0.47mfd, 50V
C202	22488478	EL, 0.47mfd, 50V
C203	22488228	EL, 0.22mfd, 50V
C204	22483101	EL, 100mfd, 10V
C205	22371102	MY, 1000pF, 50V, J
C206	22488339	EL, 3.3mfd, 50V
C207, 208	22360329	BL, 0.022mfd, 25V, M
C209, 210	22342223	CD, 0.022mfd, 50V, Z
C301, 302	22488108	EL, 0.1mfd, 50V
C303, 304	22488338	EL, 0.33mfd, 50V
C305, 306	22349472	CD, 4700pF, 50V, K

Symbol No.	Part No.	Description
C309, 310	22488339	EL, 3.3mfd, 50V
C311, 312	22485220	EL, 22mfd, 16V
C313	22483221	EL, 220mfd, 10V
C314	22485101	EL, 100mfd, 16V
C315, 316	22349391	CD, 390pF, 50V, K
C317, 318	22342223	CD, 0.022mfd, 50V, Z
C319, 320	22362101	CD, 100pF, 50V, K
C321, 322	22483101	EL, 100mfd, 10V
C323, 324	22342473	CD, 0.047mfd, 50V, Z
C325, 326	22342223	CD, 0.022mfd, 50V, Z
C327, 328	22373104	MY, 0.1mfd, 50V, M
C329, 330	22483102	EL, 1000mfd, 10V
C331	22485331	EL, 330mfd, 16V
C332	22360331	BL, 0.047mfd, 25V, M
C333, 334	22373682	MY, 6800pF, 50V, M
C335, 336	22360332	BL, 0.068mfd, 25V, M
C337, 338	22475479	EL, 4.7mfd, 16V, Non Polarity
C401, 402	22488478	EL, 0.47mfd, 50V
C403	22483470	EL, 47mfd, 10V
C404	22483101	EL, 100mfd, 10V
C405, 406	22488109	EL, 1mfd, 50V
C407, 408	22349222	CD, 2200pF, 50V, K
C409, 410	22349391	CD, 390pF, 50V, K
C411, 412	22488478	EL, 0.47mfd, 50V
C413, 414	22349332	CD, 3300pF, 50V, K
C415, 416	22349472	CD, 4700pF, 50V, K
C417, 418	22349102	CD, 1000pF, 50V, K
C419, 420	22362180	CD, 18pF, 50V, K
C421, 422	22485100	EL, 10mfd, 16V
C423, 424	22349472	CD, 4700pF, 50V, K
C425, 426	22349472	CD, 4700pF, 50V, K
C427, 428	22488478	EL, 0.47mfd, 50V
C429	22440303	EL, 47mfd, 10V
C430	22485100	EL, 10mfd, 16V
C439	22488339	EL, 3.3mfd, 50V
C440	22360331	BL, 0.047mfd, 25V, M
C441	22483331	EL, 330mfd, 10V
C442	22349472	CD, 4700pF, 50V, K
C443	22488478	EL, 0.47mfd, 50V
C444	22342103	CD, 0.01mfd, 50V, M
C445	22488479	EL, 4.7mfd, 50V
C446	22488339	EL, 3.3mfd, 50V
C447	22360331	BL, 0.047mfd, 25V, M
C448	22349472	CD, 4700pF, 50V, K
C501	22371153	MY, 0.015mfd, 50V, J
C502	22372123	MY, 0.012mfd, 50V, K
C503	22483101	EL, 100mfd, 10V
C504	22382272	PS, 2700pF, 50V, K
C505	22349471	CD, 470pF, 50V, K
C506	22362221	CD, 220pF, 50V, K
C601	22342223	CD, 0.022mfd, 50V, Z
C602	22349222	CD, 2200pF, 50V, K
C603	22488109	EL, 1mfd, 50V

Symbol No.	Part No.	Description
C604	22349222	CD, 2200pF, 50V, K
C605	22488339	EL, 3.3mfd, 50V
C701	22349102	CD, 1000pF, 50V, K
C702	22349102	CD, 1000pF, 50V, K
C703	22349102	CD, 1000pF, 50V, K
C704	22349102	CD, 1000pF, 50V, K
C705	22349102	CD, 1000pF, 50V, K
C706	22483221	EL, 220mfd, 10V
C707	22488478	EL, 0.47mfd, 50V
C708	22488478	EL, 0.47mfd, 50V
C709	22483470	EL, 47mfd, 10V
C710	22349102	CD, 1000pF, 50V, K
C711	22349102	CD, 1000pF, 50V, K
C712	22349102	CD, 1000pF, 50V, K
C713	22349102	CD, 1000pF, 50V, K
C714	22349102	CD, 1000pF, 50V, K
C715	22488478	EL, 0.47mfd, 50V
C716	22488478	EL, 0.47mfd, 50V
C717	22483470	EL, 47mfd, 10V
C801	22349102	CD, 1000pF, 50V, K
C802	22488339	EL, 3.3mfd, 50V
C803	22342103	CD, 0.01mfd, 50V, Z
C804	22485220	EL, 22mfd, 16V
C805	22342223	CD, 0.022mfd, 50V, Z
C901	22342223	CD, 0.022mfd, 50V, Z
C902	22483331	EL, 330mfd, 10V
C903	22342223	CD, 0.022mfd, 50V, Z
C904	22485101	EL, 100mfd, 16V
C905	22485222	EL, 2200mfd, 16V
C906, 907	22342223	CD, 0.022mfd, 50V, Z
C908, 909	22342223	CD, 0.022mfd, 50V, Z
C910	22342473	CD, 0.047mfd, 50V, Z

RESISTORS

1. **Resistors are carbon film 1/4W, ±5% unless otherwise noted.**
2. **PRC is short for the printed resistor circuit. If replacement of the resistor in PRC is required, please use the substitutional fixed carbon film resistor of 1/8W, ±10% according to the following list.**
   K = 1000, M = 1000000

R001	22555102	1K ohm (PRC)
R002	22555471	470 ohm (PRC)
R003	22555333	33K ohm (PRC)
R004	22555823	82K ohm (PRC)
R005	22555471	470 ohm (PRC)
R006	22555180	18 ohm
R007	22555689	6.8 ohm
R008	22555151	150 ohm
R009	22555102	1K ohm (PRC)
R010	22555332	3.3K ohm (PRC)
R011	22555823	82K ohm (PRC)
R012	22555471	470 ohm (PRC)

Symbol No.	Part No.	Description
R013	22555104	100K ohm (PRC)
R014	22555104	100K ohm (PRC)
R101	22555682	6.8K ohm (PRC)
R102	22555682	6.8K ohm (PRC)
R103	22555682	6.8K ohm (PRC)
R104	22545470	47 ohm
R105	22555331	330 ohm (PRC)
R106	22555124	120K ohm
R107	22555101	100 ohm (PRC)
R108	22555182	1.8K ohm (PRC)
R109	22555182	1.8K ohm (PRC)
R110	22555279	2.7 ohm, TA7614AP-W
	22555479	4.7 ohm, TA7614AP-Y
R111	22555151	150 ohm (PRC)
R112	22555151	150 ohm (PRC)
R113	22555151	150 ohm (PRC)
R114	22555332	3.3K ohm (PRC)
R115	22555333	33K ohm (PRC)
R116	22545820	82 ohm
R117	22555103	10K ohm (PRC)
R118	22555274	270K ohm (PRC)
R119	22555333	33K ohm (PRC)
R120	22555821	820 ohm (PRC)
R201	22555102	1K ohm (PRC)
R202	22555562	5.6K ohm (PRC)
R203	22658498	10K ohm, B, Semi-fixed Variable
R204	22555104	100K ohm (PRC)
R205	22555154	150K ohm, TA7323P-R
	22555104	100K ohm, TA7323P-O
R206, 207	22555222	2.2K ohm (PRC)
R208, 209	22555563	56K ohm (PRC)
R210	22555151	150 ohm (PRC)
R211	22555102	1K ohm
R212, 213	22555561	560 ohm (PRC)
R214	22555560	56 ohm
R215	22555152	1.5K ohm
R301, 302	22555682	6.8K ohm (PRC)
R303, 304	22555391	390 ohm (PRC)
R305, 306	22651517	50K ohm, A, Variable, Bass
R307, 308	22651516	50K ohm, B, Variable, Volume
R309, 310	22555822	8.2K ohm (PRC)
R311, 312	22555181	180 ohm (PRC)
R313, 314	22555473	51K ohm (PRC)
R315, 316	22555123	12K ohm (PRC)
R317, 318	22555393	39K ohm (PRC)
R319, 320	22555121	120 ohm (PRC)
R321	22625420	50K ohm, B, Variable, Balance
R322	22555271	270K ohm (PRC)
R323	22555472	4.7K ohm (PRC)
R324, 325	22555102	1K ohm (PRC)
R326, 327	22651517	50K ohm, A, Variable, Treble
R401, 402	22555103	10K ohm (PRC)
R403, 404	22555473	47K ohm (PRC)

Symbol No.	Part No.	Description
R405, 406	22555271	270 ohm (PRC)
R407, 408	22555102	1K ohm (PRC)
R409, 410	22555222	2.2K ohm (PRC)
R411, 412	22555472	4.7K ohm (PRC)
R414	22555332	3.3K ohm (PRC)
R415	22555182	1.8K ohm (PRC)
R416, 417	22555223	22K ohm (PRC)
R418, 419	22555225	2.2M ohm
R420, 421	22555151	150 ohm
R422, 423	22555103	10K ohm
R424, 425	22555153	15K ohm (PRC)
R426, 427	22555473	47K ohm (PRC)
R428, 429	22555334	330K ohm
R430, 431	22555124	120K ohm
R432, 433	22555391	390 ohm (PRC)
R434, 435	22555392	3.9K ohm (PRC)
R436, 437	22555223	22K ohm (PRC)
R438, 439	22555681	680 ohm (PRC)
R440, 441	22555103	10K ohm (PRC)
R442, 443	22555182	1.8K ohm (PRC)
R444, 445	22555332	3.3K ohm (PRC)
R446, 447	22555222	2.2K ohm (PRC)
R448, 449	22555473	47K ohm (PRC)
R450	22555225	2.2M ohm
R451	22555103	10K ohm (PRC)
R452	22555103	10K ohm (PRC)
R453, 454	22555102	1K ohm (PRC)
R455	22555103	10K ohm (PRC)
R456	22555332	3.3K ohm (PRC)
R457	22555102	1K ohm (PRC)
R458	22555103	10K ohm (PRC)
R459	22555102	1K ohm (PRC)
R460	22555103	10K ohm (PRC)
R461, 462	22555331	330 ohm (PRC)
R463, 464	22555103	10K ohm (PRC)
R466	22555152	1.5K ohm (PRC)
R467	22555333	33K ohm (PRC)
R468	22555102	1K ohm (PRC)
R469	22555105	1M ohm
R470, 471	22555333	33K ohm (PRC)
R472	22545330	33 ohm
R501	22555820	82 ohm
R502	22555273	27K ohm
R503	22555152	1.5K ohm
R504	22555220	22 ohm
R601	22555123	12K ohm (PRC)
R602	22555473	47K ohm (PRC)
R603, 604	22555104	100K ohm (PRC)
R605, 606	22555104	100K ohm (PRC)
R607, 608	22555123	12K ohm (PRC)
R609, 610	22555123	12K ohm (PRC)
R611, 612	22555123	12K ohm (PRC)
R614	22555104	100K ohm (PRC)
R615	22555473	47K ohm (PRC)

Symbol No.	Part No.	Description
R616	22555562	5.6K ohm (PRC)
R617	22555821	820 ohm (PRC)
R618	22555273	27K ohm
R619	22555182	1.8K ohm (PRC)
R620	22555273	27K ohm (PRC)
R621	22555392	3.9K ohm (PRC)
R622	22555393	39K ohm (PRC)
R623	22555822	8.2K ohm (PRC)
R624	22555123	12K ohm (PRC)
R625	22555472	4.7K ohm (PRC)
R626	22555393	39K ohm (PRC)
R627	22555561	560 ohm
R628	22555223	22K ohm (PRC)
R629	22555392	3.9K ohm (PRC)
R630	22555473	47K ohm (PRC)
R631	22555392	3.9K ohm (PRC)
R632	22555223	22K ohm (PRC)
R701	22555152	1.5K ohm (PRC)
R702	22555152	1.5K ohm (PRC)
R703	22555152	1.5K ohm (PRC)
R704	22555104	100K ohm (PRC)
R705	22555223	22K ohm (PRC)
R706	22555103	10K ohm (PRC)
R707	22555103	10K ohm (PRC)
R708	22555273	27K ohm (PRC)
R709	22555393	39K ohm (PRC)
R710	22555152	1.5K ohm (PRC)
R711	22555153	15K ohm (PRC)
R712	22555124	120K ohm (PRC)
R713	22555101	100 ohm (PRC)
R715	22555472	4.7K ohm (PRC)
R716	22555153	15K ohm (PRC)
R718	22555101	100 ohm (PRC)
R719	22555124	120K ohm (PRC)
R720	22555472	4.7K ohm (PRC)
R721	22555393	39K ohm (PRC)
R722	22555223	22K ohm (PRC)
R723	22555104	100K ohm (PRC)
R724	22555273	27K ohm (PRC)
R725	22555152	1.5K ohm (PRC)
R726	22555152	1.5K ohm (PRC)
R727	22555152	1.5K ohm (PRC)
R728	22555152	1.5K ohm (PRC)
R729	22555103	10K ohm (PRC)
R730	22555103	10K ohm (PRC)
R731	22555152	1.5K ohm (PRC)
R732	22555153	15K ohm (PRC)
R801	22555473	47K ohm (PRC)
R802	22555473	47K ohm (PRC)
R803	22555223	22K ohm (PRC)
R804	22555473	47K ohm (PRC)
R805	22555223	22K ohm (PRC)
R806	22555102	1K ohm (PRC)
R807	22555223	22K ohm (PRC)

Symbol No.	Part No.	Description
R808	22555151	150 ohm
R809	22555273	27K ohm (PRC)
R810	22555273	27K ohm (PRC)
R901	22555569	5.6 ohm
R902	22555330	33 ohm
R903	22555221	220 ohm
		ACCESSORIES
⚠ AC01	22176541	Cord, Power Supply (TE)
⚠ AC01	22176578	Cord, Power Supply (TU)
⚠ AC01	22176468	Cord, Power Supply (AY)
AC02	22902803	Owner's Manual (TE)
AC02	22902804	Owner's Manual (TU, AY)